# Z8 Encore!™ 8K/4K MCU Evaluation Kit

QS002504-0603

## Quick Start Guide

## Introduction

This guide acquaints users with the Z8 Encore!™ 8K/4K MCU Evaluation Kit, and gives instructions on setting up and using the tools to start building designs and applications.

## Kit Contents

Figure 1 illustrates the contents of the Z8 Encore! 8K/4K MCU Evaluation Kit.

**Figure 1. Z8 Encore! 8K/4K MCU Evaluation Kit Contents**

### Hardware

- Z8 Encore! 8K/4K MCU evaluation board
- Smart Cable for PC to Z8 Encore! evaluation board (DB9 to six-pin male)
- Power supply

## Software (on CD-ROM)

- ZDS II- Z8 Encore! IDE with ANSI C-Compiler
- Sample code
- Acrobat Reader install program
- Document browser

### Documentation

- Registration Card
- Z8 Encore! technical documentation (on CD-ROM)
  - ZDS II - IDE User Manual
  - Evaluation Kit User Manual
  - Programmer's Reference Sheet
  - eZ8 CPU User Manual
  - Product Specification
  - Product Briefs
  - Application Notes
  - Flyers
  - Product Line Card

## Supported Host Environments

- Win98 Second Edition, WinNT 4.0 Service Pack 6, Win2000 Service Pack 3, WinXP Service Pack 1
- PentiumII/233MHz processor or higher up to Pentium IV, 2.8 GHz
- 96MB RAM or more
- 25MB hard disk space or more
- Super VGA video adapter
- CD-ROM drive for software installation
- One or more RS-232 communication ports

## Setting up the Evaluation Board

The PC communicates with the Z8 Encore! 8K/4K Evaluation board using the serial port of the PC. A Z8 Encore! Smart Cable converts the RS-232 signals into the 3.3V bidirectional open-drain signal needed to communicate with the on-chip debugger of the eZ8.

**Caution:** Always use a grounding strap to prevent damage resulting from electrostatic discharge (ESD).

1. Connect the serial port of the PC to the Z8 Encore! Smart Cable DB-9 female connector.
2. Connect the Z8 Encore! Smart Cable to the Z8 Encore! 8K/4K MCU evaluation board pin header P2.
3. Connect the power supply to the evaluation board at J1, then to an electrical outlet (Figure 2).

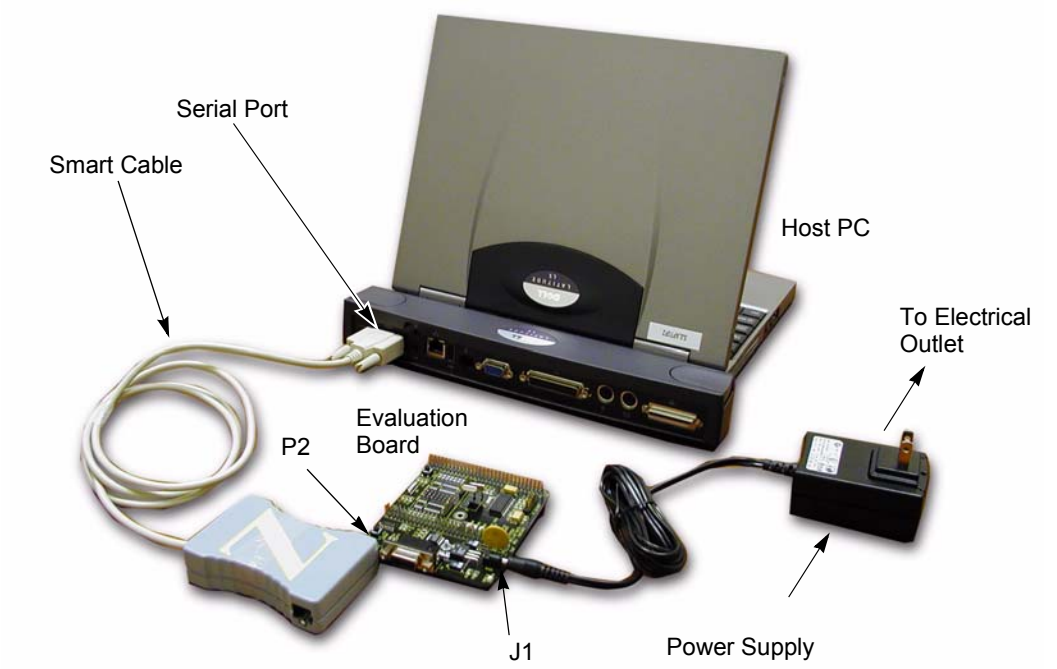



**Figure 2. Evaluation Board External Connections**

## Installing the ZDS II Z8 Encore! Software

Perform the following steps to install the software tools:

1. Load the ZDS II CD into the CD-ROM drive of the host PC. The CD launches DemoShield automatically and provides a menu to install the product and

documentation. Selecting INSTALL PRODUCTS followed by INSTALL ZDS II displays the Installation Wizard (Figure 3).

**Note:** Software versions illustrated in the following figures are for reference only. You may have an updated version.

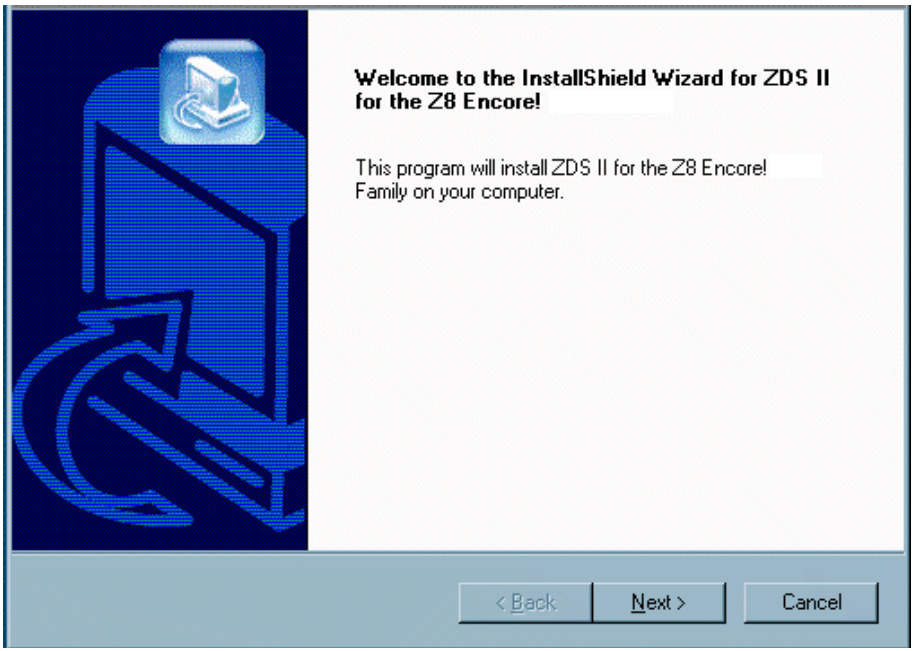

Welcome to the InstallShield Wizard for ZDS II for the Z8 Encore!
This program will install ZDS II for the Z8 Encore! Family on your computer.
< Back
Next >
Cancel

**Figure 3. Installation Wizard (Reference Only)**

2. Click Next> to continue with the installation. The License Agreement appears.
3. Select Yes to accept the agreement and proceed with the installation.
4. After selecting Yes, the Choose Destination Location screen appears. Follow the directions on the screen and choose whether to install ZDS II in the default location or in some other folder. Click on Next>.
5. The Select Program folder screen appears. Follow the directions on the screen and click on Next>.

6. After selecting Next>, the Register Your Software screen appears. Follow the instructions contained on the screen to complete registration.
7. If you elected not to register at this time, a reminder screen appears after installation asking you to register the product online at www.zilog.com. To register at a later time the registration link to the internet site is found in the ZDS II Help menu.
8. When the installation is complete, the following directory is installed on the host PC, presuming all installation settings remain at their defaults:
`C:/Program Files/ZiLOG/ZDSII_Z8_Encore!F08X_<version number>.`

## Getting Started Using ZDS II

Perform the following procedure to open an existing project.

1. Connect the Evaluation board to the host PC's serial communications port using the Smart Cable.
2. Apply power to the Evaluation board.
3. Run the ZDSII Software (`Start` > `Programs` > `ZDS II-Z8 Encore! F08X_<version number>ZDS II-Z8 Encore! F08X_<version number>.`
4. Select Open Project from the File menu. The Open Project dialog box appears. See Figure 4.

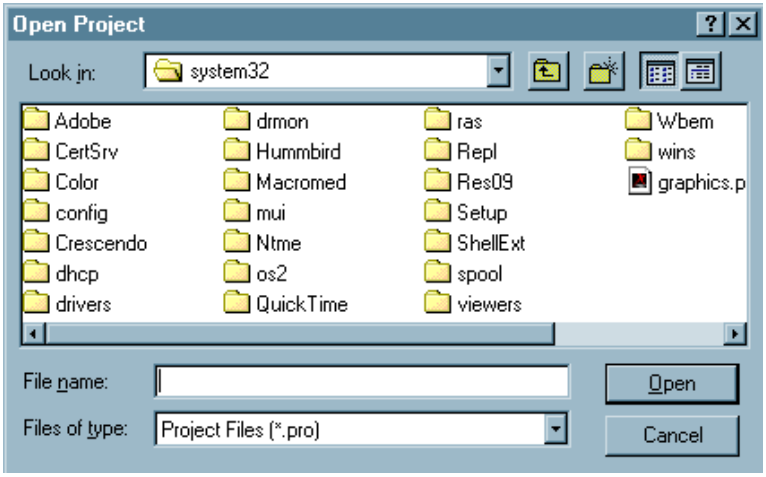



**Figure 4. Open Project Dialog Box (Reference Only)**

5. Select samples. The samples folder appears (Figure 5).

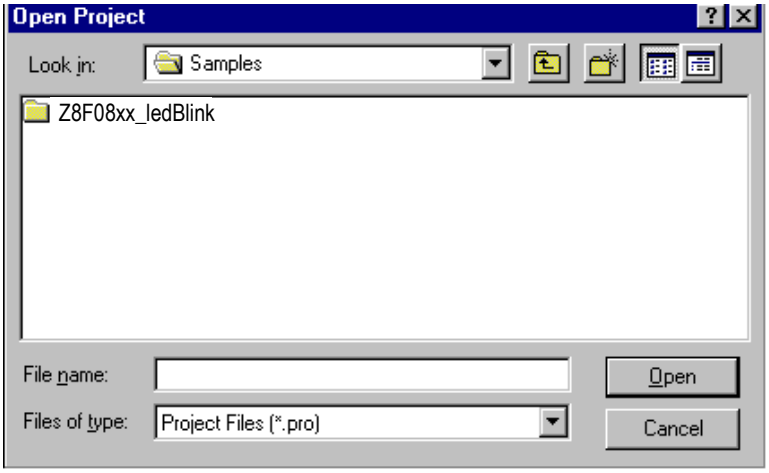



**Figure 5. Sample Directory (Reference Only)**

6. Select the Z8F08xx_ledBlink folder and then the src folder to access the project file containing ledBlink.pro. (Figure 6).

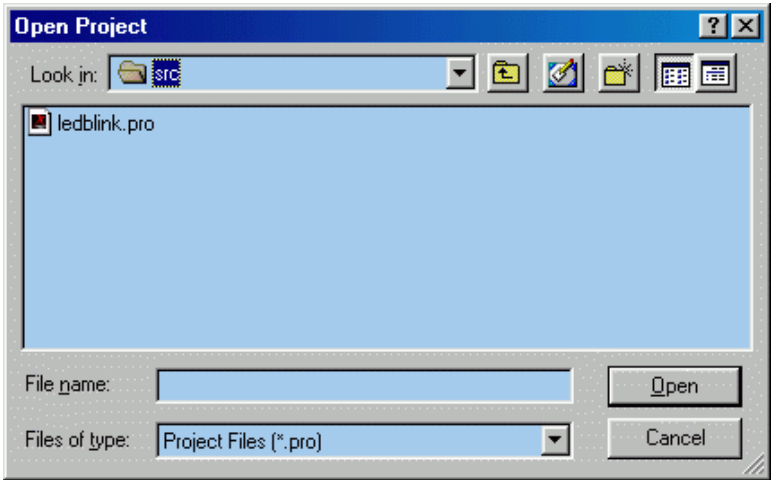



**Figure 6. src Folder (Reference Only)**

7. Select the ledblink.pro file. The initial ZDS II program screen opens (Figure 7).

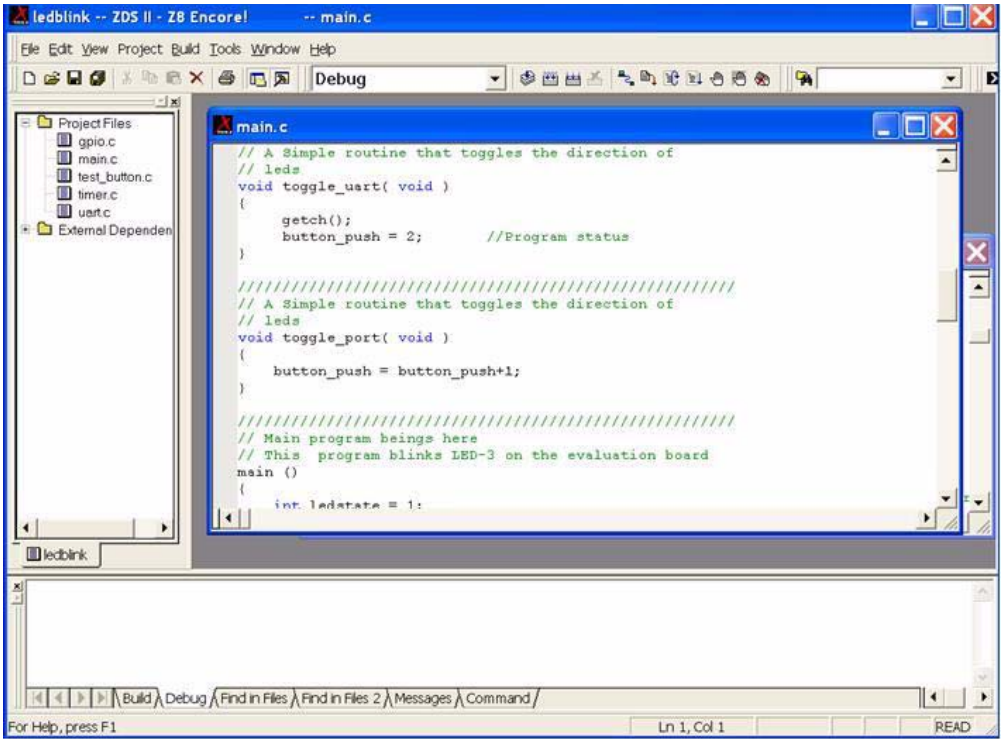
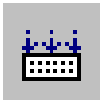



**Figure 7. ZDS II Opening Screen (Reference Only)**

8. Click on the Rebuild All icon and then the Reset icon to connect and download the code to the Evaluation board.


Rebuild All Icon

Reset Icon

9. Click on Go to start the program. The screen changes as illustrated in Figure 8

Go Icon

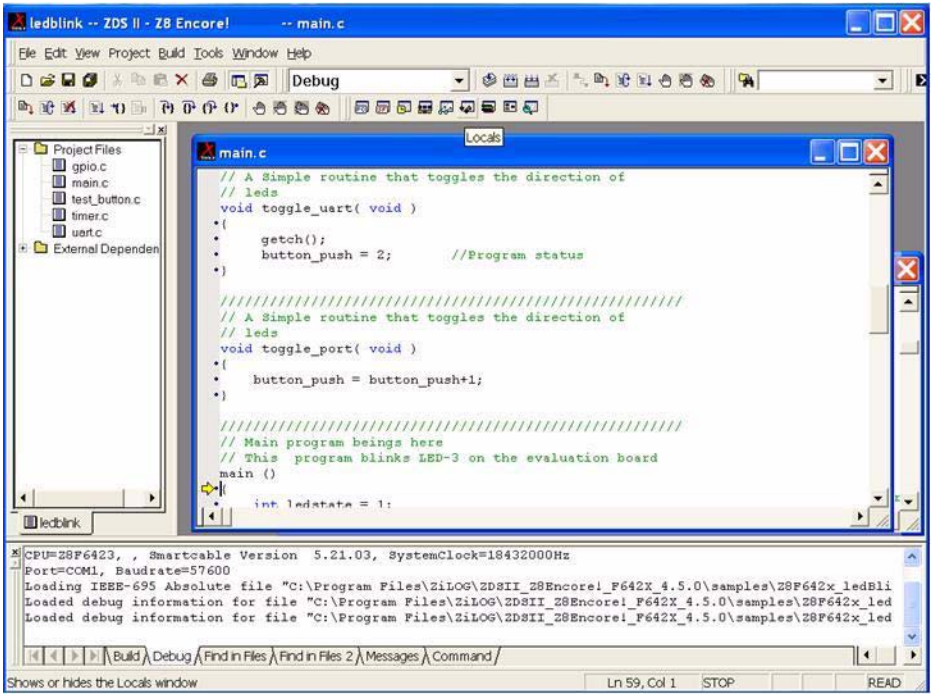



**Figure 8. ZDS II Active Screen**

The three LEDs begin blinking in sequence. If the LEDs do not blink, start over from Step 3.

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